

3.8 ELECTRICAL POWER SYSTEMS

3.8.1 AC Sources -- Operating

LCO 3.8.1 The following AC electrical power sources shall be OPERABLE:

- a. Two qualified circuits between the offsite transmission network and the onsite Class 1E AC Electrical Power Distribution System; and
- b. Two emergency diesel generators (EDGs) per division.

APPLICABILITY: MODES 1, 2, and 3.

ACTIONS

-----NOTE-----
LCO 3.0.4.b is not applicable to EDGs.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One EDG inoperable.	A.1 Perform SR 3.8.1.1 for OPERABLE offsite circuit(s).	1 hour <u>AND</u> Once per 8 hours thereafter
	<u>AND</u> A.2 Declare required feature(s), supported by the inoperable EDG, inoperable when the redundant required feature(s) are inoperable.	4 hours from discovery of an inoperable EDG concurrent with inoperability of redundant required feature(s)
	<u>AND</u> A.3 Verify the status of CTG 11-1.	Once per 8 hours
	<u>AND</u>	(continued)

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. (continued)</p>	<p>A.4.1 Determine OPERABLE EDG(s) are not inoperable due to common cause failure.</p> <p style="text-align: center;"><u>OR</u></p>	<p>24 hours</p>
	<p>A.4.2 Perform SR 3.8.1.2 for OPERABLE EDG(s).</p> <p style="text-align: center;"><u>AND</u></p>	<p>24 hours</p>
	<p>A.5 Restore availability of CTG 11-1.</p> <p style="text-align: center;"><u>AND</u></p>	<p>72 hours from discovery of Condition A concurrent with CTG 11-1 not available</p>
	<p>A.6 Restore EDG to OPERABLE status.</p>	<p>14 days</p>
<p>B. Both EDGs in one division inoperable.</p>	<p>B.1 Perform SR 3.8.1.1 for OPERABLE offsite circuit(s).</p> <p style="text-align: center;"><u>AND</u></p>	<p>1 hour</p> <p style="text-align: center;"><u>AND</u></p> <p>Once per 8 hours thereafter</p>

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. (continued)	<p>B.2 Declare required feature(s), supported by the inoperable EDGs, inoperable when the redundant required feature(s) are inoperable.</p> <p><u>AND</u></p> <p>B.3.1 Determine OPERABLE EDG(s) are not inoperable due to common cause failure.</p> <p><u>OR</u></p> <p>B.3.2 Perform SR 3.8.1.2 for OPERABLE EDG(s).</p> <p><u>AND</u></p> <p>B.4 Restore one EDG in the division to OPERABLE status.</p>	<p>4 hours from discovery of the inoperable EDGs concurrent with inoperability of redundant required feature(s)</p> <p>24 hours</p> <p>24 hours</p> <p>72 hours</p>
C. One or both EDGs in both divisions inoperable.	C.1 Restore both EDGs in one division to OPERABLE status.	2 hours
D. One offsite circuit inoperable.	D.1 Perform SR 3.8.1.1 for OPERABLE offsite circuit.	<p>1 hour</p> <p><u>AND</u></p> <p>Once per 8 hours thereafter</p> <p>(continued)</p>

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
D. (continued)	D.2 Declare required feature(s) with no offsite power available inoperable when the redundant required feature(s) are inoperable.	24 hours from discovery of no offsite power to one division concurrent with inoperability of redundant required feature(s)
	<u>AND</u> D.3 Restore offsite circuit to OPERABLE status.	72 hours
E. Two offsite circuits inoperable.	E.1 Declare required feature(s) inoperable when the redundant required feature(s) are inoperable.	12 hours from discovery of Condition E concurrent with inoperability of redundant required feature(s)
	<u>AND</u> E.2 Restore one offsite circuit to OPERABLE status.	24 hours

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>F. One offsite circuit inoperable.</p> <p><u>AND</u></p> <p>One or both EDGs in one Division inoperable.</p>	<p>-----NOTE-----</p> <p>Enter applicable Conditions and Required Actions of LCO 3.8.7, "Distribution Systems - Operating," when Condition F is entered with no AC power source to one or more 4160 V buses 64B, 64C, 65E or 65F.</p> <p>-----</p> <p>F.1 Restore offsite circuit to OPERABLE status.</p> <p><u>OR</u></p> <p>F.2 Restore both EDGs in the Division to OPERABLE status.</p>	<p>12 hours</p> <p>12 hours</p>
<p>G. Required Action and Associated Completion Time of Condition A, B, C, D, E or F not met.</p>	<p>G.1 Be in MODE 3.</p> <p><u>AND</u></p> <p>G.2 Be in MODE 4.</p>	<p>12 hours</p> <p>36 hours</p>